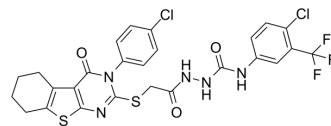


VEGFR-2/BRAF-IN-1

Cat. No.:	HY-146491
Molecular Formula:	C ₂₆ H ₂₀ Cl ₂ F ₃ N ₅ O ₃ S ₂
Molecular Weight:	642.5
Target:	VEGFR; Raf; Apoptosis
Pathway:	Protein Tyrosine Kinase/RTK; MAPK/ERK Pathway; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VEGFR-2/BRAF-IN-1 (Compound 4b) is a dual VEGFR-2 and BRAF kinases inhibitor with IC ₅₀ values of 0.049, 0.063 and 0.005 μM against VEGFR-2, BRAF ^{V600E} and BRAF ^{WT} , respectively. VEGFR-2/BRAF-IN-1 induces apoptosis and arrests the cell cycle mainly in the G1/S phase ^[1] .		
IC₅₀ & Target	BRAF ^{WT} 0.005 μM (IC ₅₀)	VEGFR2 0.049 μM (IC ₅₀)	BRAF ^{V600E} 0.063 μM (IC ₅₀)

REFERENCES

[1]. Hassan RA, et al. Novel antiproliferative agents bearing substituted thieno[2,3-d]pyrimidine scaffold as dual VEGFR-2 and BRAF kinases inhibitors and apoptosis inducers; design, synthesis and molecular docking. Bioorg Chem. 2022 May 10;125:105861.

Caution: Product has not been fully validated for medical applications. For research use only.

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